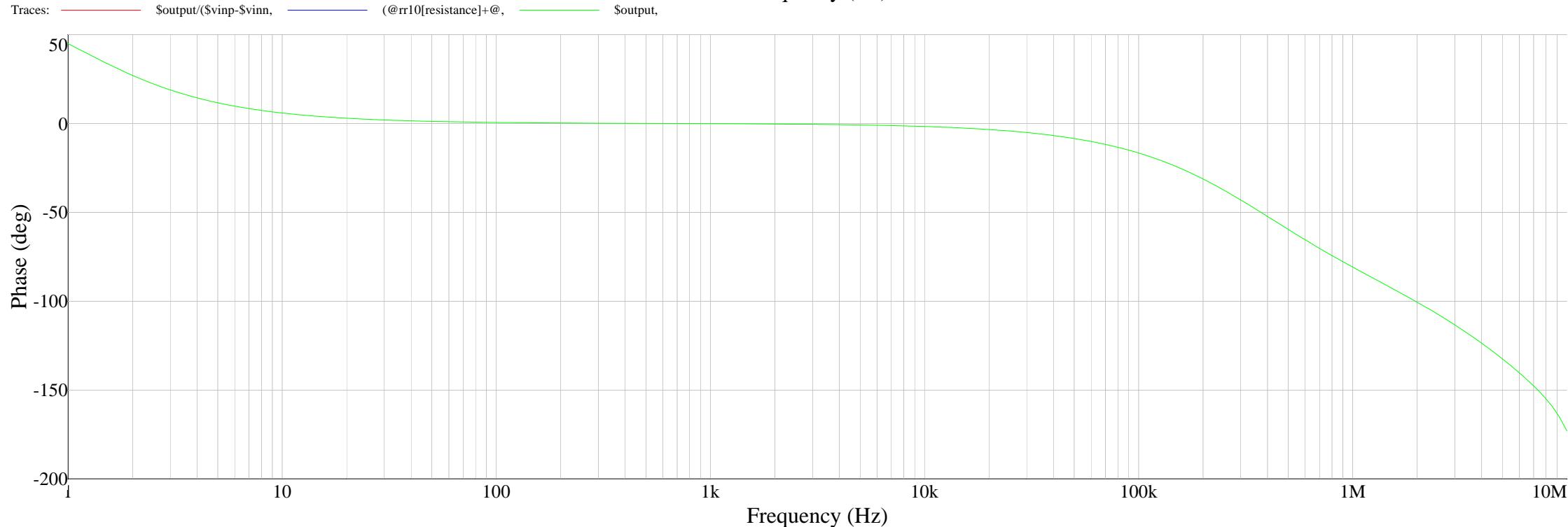
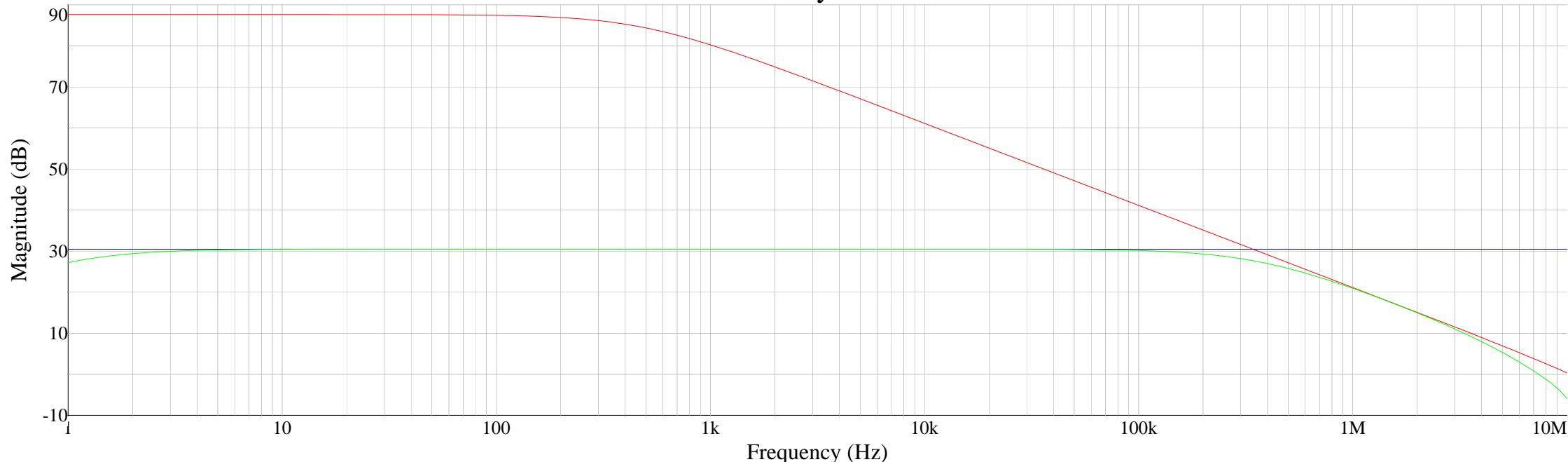
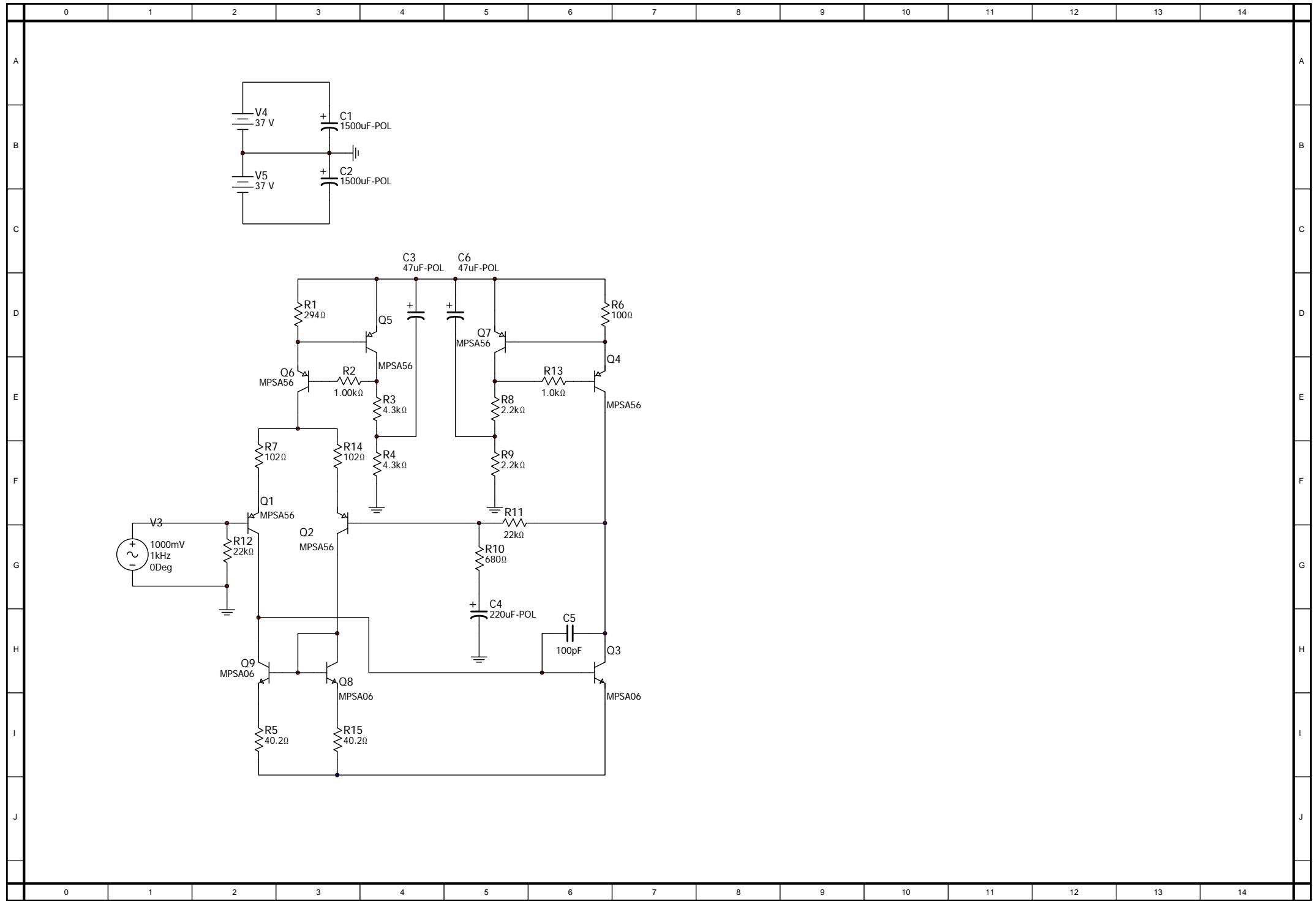


Test Amplifier

Printing Time: May 06, 2008 21:12:00

AC Analysis





Transistor BE voltage drop (V)	0.572		Frequency (Hz)	Open-Loop Gain (dB)
			0.02	115.9
			0.04	109.9
Speaker Impedance (ohm)	8	P1 Region	0.08	103.8
Output Power per Channel (watts RMS)	50.00		1.6	77.8
Number of Channels	2		3.2	71.8
			6.4	65.8
			12.8	59.8
			25.6	53.7
Powersupply Requirements			20	55.9
Current Required (amps RMS)	2.500	2.5		
Voltage Required (volts RMS)	20.000	20		
Actual Output Power (watts RMS)	50.000	50		
Rail Voltage Required (volts DC)	28.280	28		
with PSU Droop (volts DC)	34.280	34		
with Output Device Losses (volts DC)	35.651	36		
with Rectifier Diodes Loss (volts DC)	36.851	37		
Secondary Rail Voltage Required (volts RMS)	26.054	26		
Secondary Rail Current Required per channel (amps RMS)	1.250	1.3		
Secondary Rail Current Required in Total (amps RMS)	2.500	2.5		
Secondary Rail Current Required with Compensation (amps RMS)	3.000	3.0		
VA Rating Required at Specified Load (VA)	156.324	156		
Input Stage Requirements				
Bandwidth (kHz)	22.000			
Ipk (mA)	0.391			
Differential re Based on Ipk (ohm)	127.91			
Differential gm Based on Ipk (mA/V)	7.8			
Differential Tail Current (mA)	1.955			
Differential re Based Tail Current (ohm)	25.6			
Differential gm Based on Tail Currnet (mA/V)	39.1			
Differential Degeneration Resistors (ohm)	102.3			
Differential gm After Degeneration (mA/V)	7.8			
Current Mirror Degeneration (ohm)	40.9			
	R 1	293.0		
VAS Requirements				
Cdom (pF)	100			